Hohete Tibeb Share Company
Education and Technology Team
Ethio-Parents' Schools: Addis Ababa (Gerji/Gullele) and Hawassa.
Work Sheet For Grade 7

1. The position of a fireball thrown straight up in the air may be expressed by the table below.

Time in ***sec***	0	1	2	3	4
Distance in ***m***	0	48	64	48	0

   a) Draw a line graph representing the position of the ball.
   b) How far is the ball from the ground $1\frac{1}{3}\ sec$ after thrown?
   c) How far is the ball from the ground$1.5\ sec$, after thrown?

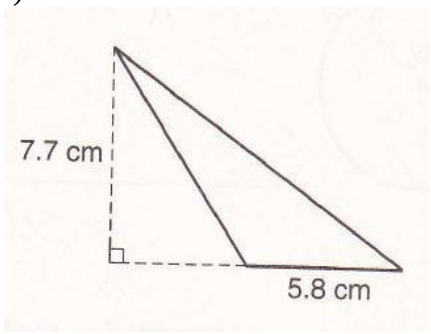
2. Find the mean, median and mode from a table of data given below.

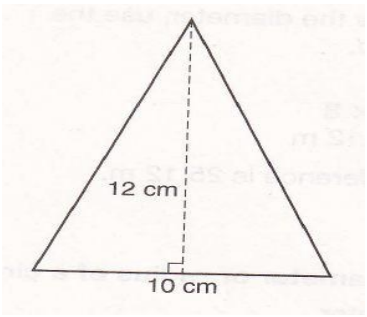
Value (***V***)	2	3	4	5	6	7	8	9	10
Frequency (***F***)	1	2	2	4	3	4	4	4	6

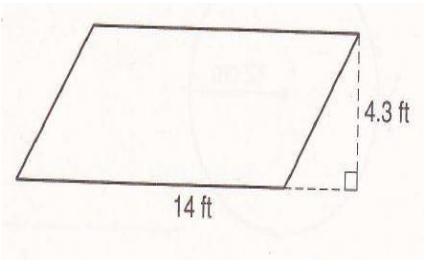
3. A student has scored 80, 98, 78 and 94 out of 100%. If he is determined to have an average score of 95% in five subjects, what minimum score, should he obtain in the remaining subject?
4. Find the median of the following numbers
   a) $42,\ 54,\ 36,\ 12,\ 7$
   b) $2,\ 6,\ 8,\ 10,\ 12,\ 14,\ 16,\ 18$
   c) $17,\ 15,\ 9,\ 13,\ 7,\ 11,\ 3,\ 5$
5. Find the range of the following data.
   a) $17,\ 12,\ 19,\ 24,\ 43,\ 23,\ 49,\ 51$
   b) $48,\ 22,\ 13,\ 12,\ 11,\ 43$
6. Find the value x if the data is $6,\ 14,\ x,\ 16,\ 17,\ 24$; the mean is 11.
7. Find the value b if the data is $5,\ 2,\ 5,\ b,\ 3,\ 5$; the median is $\frac{9}{2}$.

8. If ABCD is parallelogram and $M(< A) = 75^0$ is then find $M(< B),\ M(< C)\ and\ M(< D)$.
9. How many diagonals are there in a polygon of 50 sides?
10. If the circumference of a circle is 48 cm, then find its area.
11. Find the area of the figures given below.

a) b) c)







12. If the sum of the measure of all interior angles of a polygon is 1800, how many sides does the polygon have?
13. Find the sum of the measure of each interior angle of:
    a) a regular nonagon
    b) a regular decagon
    c) a regular 13 sided figure
    d) a regular 20 sided figure
14. The measure angles of pentagon are $2x,\ 5x,\ 7x,\ 3x\ and\ x$ calculate the largest angle.
15. Which one of the following is true?
    a) A polygon whose all sides are equal is called equiangular
    b) A polygon whose all angles are equal is called equilateral
    c) A polygon which is equilateral and equiangular is called regular polygon
    d) The formula of to find the area of trapezium is $A = \frac{1}{2}(b_1 + b_2)$.
16. Which one of the following statement is false about a parallelogram?
    a) The opposite angles area congruent
    b) The opposite sides are congruent
    c) The diagonals are congruent
    d) The consecutive angles are supplementary
17. Which of the following quadrilaterals is necessarily a rectangle
    a) A parallelogram
    b) A square
    c) A rhombus
    d) A trapezium
18. Which one of the following is not necessarily true?
    a) Adjacent sides of rhombus are congruent
    b) Adjacent angle of parallelogram are congruent
    c) Diagonals of rectangle are congruent
    d) Opposite angles of trapezium are congruent